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IS 6550 (1992): Thread Milling Cutter with Parallel Shank
[PGD 32: Cutting tools]



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“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक
चूड़ी काटने के लिए समानान्तर शैक्युक्त
मिलिंग कटर — विशिष्टि
(पहला पुनरीक्षण)

Indian Standard

THREAD MILLING CUTTER WITH
PARALLEL SHANK — SPECIFICATION
(*First Revision*)

UDC 621.914.2

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BUREAU OF INDIAN STANDARDS
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FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Milling Cutters, Saws, Gear Cutting Tool and Broaches Sectional Committee had been approved by the Production Engineering Division Council.

This standard was first published in 1971. This is one of the series of standards published on milling cutters superseding IS 1831 : 1961 'Dimensions for milling cutters' (withdrawn). Subsequent upon revision of IS 4218 'ISO metric screw threads' and changes in manufacturing practices in Indian Industry, this standard has been revised.

AMENDMENT NO. 1 FEBRUARY 1995
TO
IS 6550 : 1992 THREAD MILLING CUTTERS WITH
PARALLEL SHANK — SPECIFICATION

(First Revision)

(Page 2, Table 1, fourth column) — Substitute 'l₁' for 'L₁'.

(PE 11)

Reprography Unit, BIS, New Delhi, India

Indian Standard

THREAD MILLING CUTTER WITH PARALLEL SHANK — SPECIFICATION

(First Revision)

1 SCOPE

This Standard covers dimensions and other requirements for thread milling cutter with parallel shank suitable for ISO metric screw threads with coarse and fine pitches in the range of 0.75 mm to 2.5 mm according to IS 4218 (Part 2) 1976 ISO metric screw threads Part 2 Diameter pitch combinations (*first revision*)

2 REFERENCES

The following Indian Standards are necessary adjuncts to this standard

| <i>IS No.</i> | <i>Title</i> |
|----------------|--|
| IS 1830 : 1982 | Technical supply conditions for milling cutters (<i>second revision</i>) |
| IS 7778 : 1975 | Methods for sampling small tools |

3 TERMINOLOGY

For the purpose of this standard, the definitions given in IS 1830 : 1982 shall apply

4 DIMENSIONS

The dimensions of thread milling cutter, with parallel shank shall be as given in Table 1.

5 MATERIAL AND HARDNESS

Material and hardness of thread milling cutters

with parallel shank shall be in accordance with IS 1830 : 1982

6 GENERAL REQUIREMENTS

6.1 Unless otherwise specified the milling cutters shall be of right hand cutting with straight flutes.

6.2 For requirements not covered in this standard reference shall be made to IS 1830 : 1982

7 DESIGNATION

A thread milling cutter with parallel shank of diameter (*D*) 10 mm and nominal length (*l*) 16 mm for thread with pitch (*P*) 1.5 mm of tool type H and for right hand cutting shall be designated as:

Thread Milling Cutter Parallel Shank—IS 6550, 10 16 × 1.5 H

8 SAMPLING

The sampling and criteria of acceptance shall be according to IS 7778 : 1975.

9 MARKING

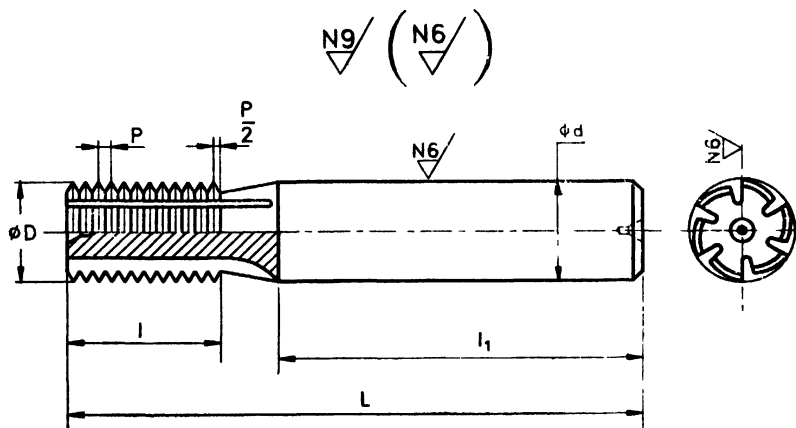
Each thread milling cutter shall be marked according to IS 1830 : 1982.

10 PRESERVATIVE COATING AND PACKAGING

Preservative coating and packaging of each thread milling cutter shall be done in accordance with IS 1830 : 1982.

Table 1 Dimensions of Thread Milling Cutters with Paralled Shank
(Clause 4)

All dimensions in millimetres.



| D js16 | d h8 | L +0.2 0 | L_1 | l Nominal | Pitch P | Tool Type |
|-------------|-----------|------------------|-------|----------------|--------------------------|--------------|
| 8 | 8 | 53 | 40 | 8 | 0.75 1 1.25 | H |
| | | 58 | | 12 | 0.75 1 1.25 | |
| 10 | 10 | 63 | 45 | 10 | 0.75 1 1.25 1.5 | |
| | | 70 | | 16 | 0.75 1 1.25 1.5 | |
| 12 | 12 | 70 | 50 | 12 | 1 1.25 1.5 1.75 | |
| | | 80 | | 20 | 1.25 1.5 1.75 | |
| 16 | 16 | 80 | 56 | 16 | 1 1.5 2 | |
| | | 90 | | 25 | 1 1.5 2 | |
| 20 | 20 | 92 | 63 | 20 | 1 1.5 2 2.5 | |
| | | 105 | | 32 | 1 1.5 2 2.5 | |

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